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# Pickling Cucumber Cultivar Evaluation Trials

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PICKLING CUCUMBER CULTIVAR EVALUATION  
TRIALS--1973

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The pickling cucumber cultivar evaluation trials were conducted at the OARDC Green Springs Crops Research Unit near Green Springs. Fourteen cultivars were evaluated in the replicated trial and eleven lines were evaluated in a non-replicated observational trial.

Cultural Information

The soil is classed as a sandy loam. A broadcast application of 0-25-25 at 815 lb./A plus 500 lb./A of 33-0-0 was made and incorporated prior to planting. The plots were seeded on June 13 using a Stan-Hay seeder which seeded 4 to 5 seeds per ft. of row. Rows were 25 ft. long on 28-in. centers. Vegiben 2E at 2 lb./A was applied broadcast immediately after planting. One active hive of honey bees was placed in the plot area when the plants started to bloom. All other cultural practices during the growing season were according to standard recommendations. Weed control was excellent and no serious problems with insects or diseases developed during the season except for a mild outbreak of angular leaf spot which occurred a few days before first harvest.

The plots were harvested by hand and the cucumbers were graded and sized using a commercial sizer. Fruits were classed into the following sizes and values placed on each size according to the following PCIC values:

<u>Size</u>	<u>\$/CWT</u>
1-less than 1 1/16 in.	6
2-1 1/16 to 1 1/2 in.	3
3-1 1/2 to 2 in.	2
4-2 to 2 1/4 in.	1

Time and labor limitations prevented harvesting each cultivar or line when it had reached optimum maturity for maximum returns (a few over-sized fruits in each plot). Therefore, the first harvest was made when a few over-sized fruits were present in the total plot area. This undoubtedly influenced the first-harvest yields and values but it was felt that data from subsequent harvests would partially compensate for the lack of correct timing of the first harvest.

Growing conditions were generally excellent from the date of planting to first harvest. A total of 5.21 in. of rainfall occurred during this time. Rainfall during the 18-day harvest period was less than adequate when only 1.37 in. was recorded.

Results from these cultivar evaluation trials are presented in Tables 1 through 6.

The author wishes to express his sincere appreciation to the seed companies who provided the seed for the trials. These included Joseph Harris Co., Inc., Rochester, N. Y.; Northrup, King & Co., Minneapolis, Minn.; Asgrow Seed Co., Kalamazoo, Mich.; Ferry-Morse Seed Co., Mountain View, Calif.; Petoseed Co., Inc., Saticoy, Calif.; Niagara Div. FMC Corp., El Macero, Calif.

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TABLE 1.--First Harvest Yield From Replicated Trial of Pickling Cucumber Cultivars.  
Green Springs. 1973

Cultivar	Source	Lot No.	Spine Color	CWT/A				Total	Culls
				Size = 1	2	3	4		
Pickmore	Harris	429-1672	W	17.2	53.8	83.4	0	154.4	14.0
Earlipik	NK	37615/8	W	21.0	66.6	47.6	0	135.2	11.6
Premier	Asgrow	87696	W	16.4	43.4	70.4	1.2	131.4	10.2
Mariner	Harris	423-1687	W	15.6	44.4	58.6	0	118.6	8.8
Ranger	Asgrow	67780	B	15.2	31.2	72.0	0	118.4	14.2
Explorer	Asgrow	67793	W	11.8	42.2	56.0	1.0	111.0	6.0
Bounty	Asgrow	87620	B	14.4	44.6	49.6	0	108.6	9.8
LaSalle	FM	97200	B	17.0	43.0	45.4	0	105.4	7.6
Salty	Peto	335-004	W	14.0	43.8	45.6	0	103.4	10.2
Green Spear	NK	27536/70200	W	15.0	46.4	36.8	1.2	99.4	6.8
Perfecto Verde	NK	37537/70700	W	13.4	45.8	36.0	0	95.2	10.2
Pioneer	Peto	3/2-025	B	11.8	39.6	39.2	0	90.6	5.6
Carolina	Asgrow	37633	W	14.8	30.2	40.4	1.4	86.8	5.0
Bravo	Peto	311-016	W	3.2	8.0	19.0	1.2	31.4	1.2

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TABLE 2.--Yield From Replicated Trial of Pickling Cucumbers.  
Green Springs. 1973

Cultivar	Yield at 5 Harvest Dates - CWT/A					Total
	7-25	7-30	8-3	8-8	8-13	
Salty	103.4	64.4	79.6	95.8	78.0	421.2
Mariner	118.6	105.4	59.2	94.6	36.0	413.8
Earlipik	135.2	78.4	40.8	97.2	42.8	394.4
Perfecto Verde	95.2	72.6	47.4	111.8	54.4	381.4
Pickmore	154.4	79.0	40.8	57.8	33.6	365.6
Premier	131.4	79.8	47.8	75.2	31.0	365.2
Bounty	108.6	76.2	49.4	72.6	58.0	364.8
Explorer	111.0	82.6	46.6	82.0	40.0	361.8
Ranger	118.4	56.0	31.8	80.4	48.0	334.6
Pioneer	90.6	76.2	43.2	69.8	33.0	312.8
Carolina	86.8	74.4	41.2	67.8	33.6	303.8
Green Spear	99.4	57.2	36.2	62.6	30.0	285.4
LaSalle	105.4	68.8	19.0	66.0	25.8	285.0
Bravo	31.4	43.0	32.4	73.8	46.6	227.2

TABLE 3.--Value of Harvested Cucumbers From Replicated Trial.  
Green Springs. 1973

Cultivar	Value from 5 Harvest Dates - \$/A					Total
	7-25	7-30	8-3	8-8	8-13	
Mariner	344	369	239	279	133	1,364
Earlipik	421	271	172	309	158	1,331
Salty	306	210	279	306	205	1,306
Premier	370	301	197	264	110	1,242
Pickmore	432	300	181	212	117	1,242
Bounty	320	266	201	264	182	1,233
Perfecto Verde	290	241	182	320	179	1,212
Explorer	310	284	210	258	126	1,188
Ranger	329	201	138	257	168	1,093
Carolina	261	248	190	237	121	1,057
Green Spear	304	211	154	239	109	1,017
Pioneer	268	223	163	235	120	1,009
LaSalle	321	249	84	201	94	949
Bravo	82	133	125	190	115	645

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TABLE 4.--First Harvest Yield From Non-Replicated Observational Trial, Pickling Cucumbers,  
Green Springs. 1973.

Line	Source	Lot No.	Size =	CWT/A				Total	Culls
				1	2	3	4		
NCX-5002	Niagara	8336		0	0	38.2	0	38.2	0
NCX-5001	Niagara	7421		16.4	30.6	96.4	12.0	155.4	30.0
FX-3805	FM	722665		18.0	34.4	37.4	0	89.8	4.4
FX-3808	FM	722640		11.2	36.6	31.4	0	79.4	1.4
XP 1082	Asgrow	37631		12.0	30.6	27.0	0	69.6	1.4
11 ND	Harris	PW 5631		19.4	41.8	53.0	0	114.4	9.0
38 ND	Harris	1686		22.4	35.8	23.2	0	81.6	4.4
4 JND	Harris	1685		12.0	48.6	62.0	0	122.6	12.0
1159	Harris	PW 4082		16.4	35.2	53.8	6.8	112.2	7.4
3859	Harris	PW 5291		9.8	27.0	29.2	8.2	74.2	1.4
3885	Harris	PW 4072 A		15.8	25.4	59.0	0	100.2	3.0

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TABLE 5.--Yield From Non-Replicated Trial of Pickling Cucumbers.  
Green Springs, 1973.

Line	Yield at 4 Harvest Dates - CWT/A				Total
	7-25	7-30	8-3	8-8	
NCX-5002	38.2	118.0	16.4	15.6	188.2
NCX-5001	155.4	149.6	35.8	44.8	385.6
FX-3805	89.8	113.8	21.6	74.6	299.8
FX-3808	79.4	52.4	65.0	103.2	300.0
XP 1082	69.6	77.0	50.2	93.4	290.2
11 ND	114.4	56.2	40.4	85.2	296.2
38 ND	81.6	117.2	33.0	38.2	330.0
4 JND	122.6	62.0	15.8	79.2	279.6
1159	112.2	118.2	46.4	94.2	371.0
3859	74.2	99.4	27.8	83.0	284.4
3885	100.2	45.0	19.4	88.2	252.8

TABLE 6.--Value of Harvested Cucumbers From Non-Replicated Trial.  
Green Springs, 1973

Line	Value from 4 Harvest Dates - \$/A				Total
	7-25	7-30	8-3	8-8	
NCX-5002	76	387	90	58	611
NCX-5501	396	417	114	140	1,067
FX-3805	286	357	120	194	957
FX-3808	240	184	256	277	957
XP 1082	218	212	199	298	927
11 ND	348	232	147	251	978
38 ND	289	488	171	149	1,097
4 JND	342	236	73	238	889
1159	319	383	173	240	1,115
3859	206	377	123	211	917
3885	289	176	93	263	821

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